

MSG 021 - RED FD03 PAYLOAD SUMMARY

FREESTAR Red FD03 Payload Summary

The MEIDEX data that was played back from the 3 ROI over passes was received and analyzed in the POCC for “quick-look” results. Although no dust was detected due to the massive cloud coverage, initial analysis showed that the two cameras are doing a good job, supplying high quality images! The cloud patterns imaged by the MEIDEX cameras showed remarkable details, encouraging further research. SOLCON is working nominally and awaiting its next solar observation on FD05. SOLSE Earth Checkout Operation was a success, including door operations (although we regret not giving you something to look at on the underside of our door!), and we are currently analyzing a small subset of the data. CVX-2 completed the calibration at Tc + 1 K, and acquired good data during this time. The xenon sample is currently soaking at Tc + 0.1 K. LPT CANDOS had another successful day today with 2 MILA passes and 1 Dryden pass.

SPACEHAB

We are still troubleshooting the KU2 data anomaly, but have not yet determined the problem cause or a permanent solution. The interim workaround is allowing payload activities to continue with only minor impacts.

SPACEHAB payloads continue to perform well, and no significant timeline impacts have been experienced at this time.

Specific payload highlights so far include:

ARMS activities continue as scheduled. The ARMS team is still seeing evidence of excessive noise in some of their downlink data. It is believed that the impact to ARMS science is minimal, but future IFM activities are being evaluated.

The MSTRS team appreciates KC’s efforts in performing MP04 yesterday, thus allowing them to successfully power-up the unit and uplink their first data set.

The STARS team is extremely pleased with the data they are getting from their Experiments. They report that the chemical garden experiment is producing results that are quite different from their ground controls, and that the various insects are adapting well to weightlessness.

The BDS-05 team appreciates Laurel’s observation and removal of the red cap floating within the BE Incubator Module. Her quick action prevented possible damage to the experiment.

KC’s astute observation of MGM video discrepancies resulted in the discovery that the VSU was configured incorrectly due to a miscommunication on the ground. Due to her quick identification of the problem, experiment science loss was minimized.